Performance Data Sheet

VSC5550BNA

General Information

Model	VSC5550BNA	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	16000	14300					
	Watts	2620	3070					
	Amps	17.5	19.0					
	Lb/h	193	182					
-10	Btu/h	18500	16700	15100				
	Watts	2600	3050	3550				
	Amps	17.5	19.0	20.7				
	Lb/h	222	211	200				
-5	Btu/h	21300	19500	17700	15900			
	Watts	2590	3020	3510	4070			
	Amps	17.5	19.0	20.6	22.6			
	Lb/h	254	244	233	221			
0	Btu/h	24400	22500	20700	18800	16700		
	Watts	2580	3000	3480	4030	4650		
	Amps	17.6	19.0	20.6	22.5	24.8		
	Lb/h	289	280	270	259	244		
5	Btu/h	28000	25900	23900	21900	19700		
	Watts	2570	2980	3450	3990	4610		
	Amps	17.6	19.0	20.6	22.5	24.7		
	Lb/h	328	319	310	300	286		
10	Btu/h	31800	29700	27500	25300	23000	20500	17800
	Watts	2560	2960	3430	3960	4570	5260	6040
	Amps	17.5	19.0	20.6	22.4	24.6	27.2	30.4
	Lb/h	372	363	354	344	332	315	294
15	Btu/h	36100	33800	31500	29100	26600	24000	21000
	Watts	2550	2950	3400	3930	4530	5210	5990
	Amps	17.5	18.9	20.5	22.4	24.5	27.1	30.2
	Lb/h	419	410	402	392	380	365	344
20	Btu/h	40800	38200	35700	33200	30500	27700	24500
	Watts	2550	2930	3380	3900	4490	5170	5940
	Amps	17.5	18.9	20.5	22.3	24.5	27.0	30.1
	Lb/h	470	462	454	445	433	418	399

25	Btu/h	45800	43100	40400	37600	34700	31700	28300
	Watts	2540	2920	3360	3870	4460	5130	5890
	Amps	17.4	18.8	20.4	22.2	24.4	26.9	30.0
	Lb/h	526	518	510	501	490	476	457
30	Btu/h	51300	48400	45400	42400	39300	36000	32400
	Watts	2530	2900	3330	3840	4420	5090	5850
	Amps	17.3	18.8	20.4	22.2	24.3	26.8	29.8
	Lb/h	586	578	570	561	551	537	519
35	Btu/h	57300	54100	50900	47600	44200	40600	36800
	Watts	2520	2880	3310	3800	4380	5040	5800
	Amps	17.2	18.7	20.3	22.1	24.2	26.7	29.7
	Lb/h	651	642	634	626	616	602	585
40	Btu/h	63700	60200	56700	53200	49500	45600	41500
	Watts	2510	2860	3280	3770	4340	5000	5750
	Amps	17.1	18.5	20.2	22.0	24.1	26.6	29.6
	Lb/h	720	711	703	695	685	672	655
45	Btu/h	70500	66800	63000	59200	55200	51000	46600
	Watts	2490	2840	3250	3730	4300	4950	5700
	Amps	16.9	18.4	20.0	21.9	24.0	26.5	29.5
	Lb/h	794	785	777	768	758	746	729
50	Btu/h	77900	73800	69700	65600	61300	56800	52000
	Watts	2470	2810	3210	3690	4250	4900	5650
	Amps	16.7	18.2	19.9	21.7	23.9	26.4	29.3
	Lb/h	873	863	855	847	837	824	808
55	Btu/h	85700	81300	76900	72400	67800	62900	57800
	Watts	2440	2780	3180	3650	4210	4850	5590
	Amps	16.4	18.0	19.7	21.6	23.7	26.2	29.2
	Lb/h	957	947	938	929	919	907	891

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.862806E+04	5.645805E+02	3.168688E+00	4.950936E+02
C2	8.204494E+02	1.825729E+01	-3.092754E-02	7.786380E+00
C3	-4.821694E+02	1.824912E+01	3.108777E-01	-5.502787E+00
C4	1.049182E+01	4.319922E-03	-9.667687E-04	9.015611E-02
C5	-1.647312E+00	-3.109888E-01	1.012817E-03	-1.526085E-02
C6	3.135749E+00	-4.102972E-03	-2.736433E-03	5.286174E-02
C7	1.924814E-02	-9.133500E-04	-3.526248E-06	1.627138E-04
C8	-4.255387E-02	5.034446E-04	9.489981E-06	-1.788442E-04
C9	-3.449791E-03	7.049802E-04	-7.542346E-06	1.421786E-04
C10	-1.109989E-02	1.132404E-03	1.372164E-05	-2.034239E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature